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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1 1. (Previously presented) A packaged micro electrical mechanical system
2 (MEMS) device, comprising
3 a packaging within which is mounted at least one optical MEMS device; and
4 at least two distinct integrated circuit chips, a first one of said integrated circuit
5 chips containing low-voltage digital-to-analog converters and a second one of said
6 integrated circuit chips containing high-voltage amplifiers, said at least two distinct
7 integrated circuit chips being mounted upon said packaging.

- 1 2. (Previously presented) The invention as defined in claim 1 wherein said high
2 voltage is any voltage level higher than said low voltage, said low voltage being a supply
3 voltage of said first one of said integrated circuit chips containing low-voltage digital-to-
4 analog converters.

- 1 3. (Original) The invention as defined in claim 1 wherein at least one of said at
2 least two distinct integrated circuit chips is directly mounted upon said packaging.

- 1 4. (Original) The invention as defined in claim 1 wherein at least one of said at
2 least two distinct integrated circuit chips is indirectly mounted upon said packaging.

- 1 5. (Original) The invention as defined in claim 1 wherein at least one of said at
2 least two distinct integrated circuit chips is mounted on a multi-chip module which is
3 mounted upon said packaging.

- 1 6. (Original) The invention as defined in claim 1 wherein said at least one optical
1 MEMS device includes micro mirrors.
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1 7. (Previously presented) The invention as defined in claim 6 wherein said micro
2 mirrors are arranged to reflect light approaching said packaging from a first side thereof
3 and at least one of said integrated circuits circuit chips is mounted to the side of said
4 packaging that is opposite to said first side.

1 8. (Previously presented) The invention as defined in claim 6 wherein said micro
2 mirrors are arranged to reflect light approaching said packaging from a first side thereof
3 and at least one of said integrated circuits circuit chips is mounted to said first side.

1 9. (Previously presented) The invention as defined in claim 6 wherein said micro
2 mirrors are arranged to reflect light approaching said packaging from both a first side
3 thereof and a second side thereof and at least one of said integrated circuits circuit chips
4 is mounted to said first side and at least another of said integrated circuits circuit chips is
5 mounted to said second side.

1 10. (Original) The invention as defined in claim 6 wherein said high-voltage
2 amplifiers are adapted to supply driving voltages for controlling a position of said micro
3 mirrors.

1 11. (Original) The invention as defined in claim 1 further comprising wires
2 routed on said packaging whereby at least one interconnection is made between said
3 integrated circuit chips.

1 12. (Previously presented) The invention as defined in claim 1 further comprising
2 wires routed on said packaging whereby at least one interconnection is made between
3 said at least one said MEMS device to one of said integrated circuits circuit chips.

1 13. (Previously presented) The invention as defined in claim 1 further comprising
2 at least one electrical connector coupling said at least one of said integrated circuits
3 circuit chips physically to said packaging and electrically to said MEMS device.

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1 14. (Previously presented) The invention as defined in claim 1 further comprising
2 at least one electrical connector coupling at least one of said integrated circuits circuit
3 chips physically to said packaging and electrically to another of said integrated circuits
4 circuit chips.

1 15. (Original) The invention as defined in claim 1 further comprising at least one
2 connector adapted to mount at least one of said integrated circuit chips on said packaging.

1 16. (Original) The invention as defined in claim 15 wherein said at least one
2 connector is integrated with said packaging.

1 17. (Previously presented) The invention as defined in claim 1 further comprising
2 at least one connector coupled to at least one of said integrated circuit chips and being
3 adapted for mounting said at least one integrated circuits circuit chip on said packaging.

1 18. (Previously presented) The invention as defined in claim 1 wherein at least
2 one of said integrated circuits circuit chips includes demultiplexing circuits.

1 19. (Original) The invention as defined in claim 1 further comprising at least a
2 third integrated circuit chip electrically coupled to at least one of said at least two
3 integrated circuit chips, said third integrated circuit chip being mounted to said packaging
4 and including demultiplexing circuits.

1 20. (Previously presented) The invention as defined in claim 19 wherein said
2 third integrated circuit chips chip is directly mounted upon said packaging.

1 21. (Original) The invention as defined in claim 19 wherein at least one of said at
2 least two distinct integrated circuit chips is indirectly mounted upon said packaging.

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1 22. (Previously presented) The invention as defined in claim 19 wherein said
2 third integrated circuit chips chip is mounted on a multi-chip module which is mounted
3 upon said packaging.

1 23. (Previously presented) The invention as defined in claim 19 wherein said
2 third integrated circuit chips chip is mounted on a multi-chip module upon which is also
3 included at least one of said at least two distinct integrated circuit chips, said multi-chip
4 module being mounted upon said packaging.

1 24. (Original) A packaged micro electrical mechanical system (MEMS) device,
2 comprising
3 a packaging within which is mounted micro mirrors contained within at least one
4 MEMS device, said packaging being adapted to have mounted thereon at least two
5 distinct integrated circuit chips, a first one of said integrated circuit chips containing low-
6 voltage digital-to-analog converters and a second one of said integrated circuit chips
7 containing high-voltage amplifiers.

1 25. (Original) A packaged micro electrical mechanical system (MEMS) device,
2 comprising
3 means for packaging at least one optical MEMS device; and
4 means for mounting upon said means for packaging at least two distinct integrated
5 circuit chips, a first one of said integrated circuit chips containing low-voltage digital-to-
6 analog converters and a second one of said integrated circuit chips containing high-
7 voltage amplifiers.

1 26. (Original) The invention as defined in claim 25 wherein said at least one
2 optical MEMS device contains at least one micro mirror.

1 27. (Original) The invention as defined in claim 25 further comprising means for
2 electrically coupling at least one of said at least two distinct integrated circuit chips to
3 said at least one optical MEMS device.

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1 28. (Original) The invention as defined in claim 25 further comprising means for
2 electrically coupling one of said at least two distinct integrated circuit chips to at least
3 another of said at least two distinct integrated circuit chips.

1 29. (Original) The invention as defined in claim 25 further comprising means for
2 mounting upon said means for packaging at least one integrated circuit chip that performs
3 demultiplexing.

1 30. (Original) A method for forming a packaged micro electrical mechanical
2 system (MEMS) device, the method comprising the steps of:
3 mounting at least one optical MEMS device within a package; and
4 mounting at least two distinct integrated circuit chips to said package, a first one
5 of said integrated circuit chips containing low-voltage digital-to-analog converters and a
6 second one of said integrated circuit chips containing high-voltage amplifiers.

1 31. (Previously presented) The invention as defined in claim 30 further
2 comprising the step of placing said first and said second integrated circuits circuit chips
3 within a module prior to mounting them to said package in said step of mounting at least
4 two distinct integrated circuit chips to said package.

1 32. (Previously presented) The invention as defined in claim 30 wherein said
2 micro electrical mechanical system (MEMS) device is optically coupled to at least one
3 other device to form a system that has been trained, said method further comprising the
4 steps of:
5 replacing one of said first and second integrated circuits circuit chips so that said
6 system operates as it did prior to executing said replacing step without requiring said
7 system to be trained after said replacing step.

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1 33. (Previously presented) The invention as defined in claim 30 wherein said
2 micro electrical mechanical system (MEMS) device is optically coupled to at least one
3 other device to form a system that has been trained, and wherein one of said first and
4 second integrated circuits circuit chips when supplied with each of a set of first prescribed
5 values as an input generates a respective corresponding output, said method further
6 comprising the steps of:

7 replacing one of said first and second integrated circuits circuit chips; and
8 employing a set of replacement prescribed values with each value in said set of
9 replacement prescribed values having a respective corresponding prescribed value in said
10 set of first prescribed values, each of said replacement prescribed values being such as to
11 cause said replaced one of said first and second integrated circuits circuit chips to supply
12 the same output as said one of said first and second integrated circuits circuit chips which
13 was replaced would have supplied had the corresponding value of said set of first
14 prescribed values been supplied to said replaced one of said first and second
15 integrated circuits circuit chips;

16 whereby no training is required after said replacing step.

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1 34. (Currently amended) A packaged micro electrical mechanical system
2 (MEMS) device, comprising

3 a packaging within which is mounted at least one optical MEMS device, said
4 packaging ~~having being adapted to have~~ mounted thereon at least one integrated circuit
5 chip made up of a substrate distinct from said packaging and including at least two
6 electrical circuit devices, said packaging being adapted to maintain said at least one
7 optical MEMS device in a prescribed optical relationship with at least one other optical
8 component.

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1 35. (Currently amended) ~~The invention as defined in claim 34~~ A packaged micro
2 electrical mechanical system (MEMS) device, comprising a packaging within which is
3 mounted at least one optical MEMS device, said packaging being adapted to have
4 mounted thereon at least one integrated circuit chip, said packaging being adapted to
5 maintain said at least one optical MEMS device in a prescribed optical relationship with
6 at least one other optical component, wherein said at least one integrated circuit chip
7 comprises at least a first integrated circuit chip containing low-voltage digital-to-analog
8 converters and a second integrated circuit chip containing high-voltage amplifiers.

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- 1 36. (Currently amended) ~~The invention as defined in claim 34~~ A packaged micro
2 electrical mechanical system (MEMS) device, comprising a packaging within which is
3 mounted at least one optical MEMS device, said packaging being adapted to have
4 mounted thereon at least one integrated circuit chip, wherein said at least one integrated
5 circuit chip includes circuitry of at least one of the type of the set consisting of low-
6 voltage digital-to-analog converters, high-voltage amplifiers, and demultiplexers.